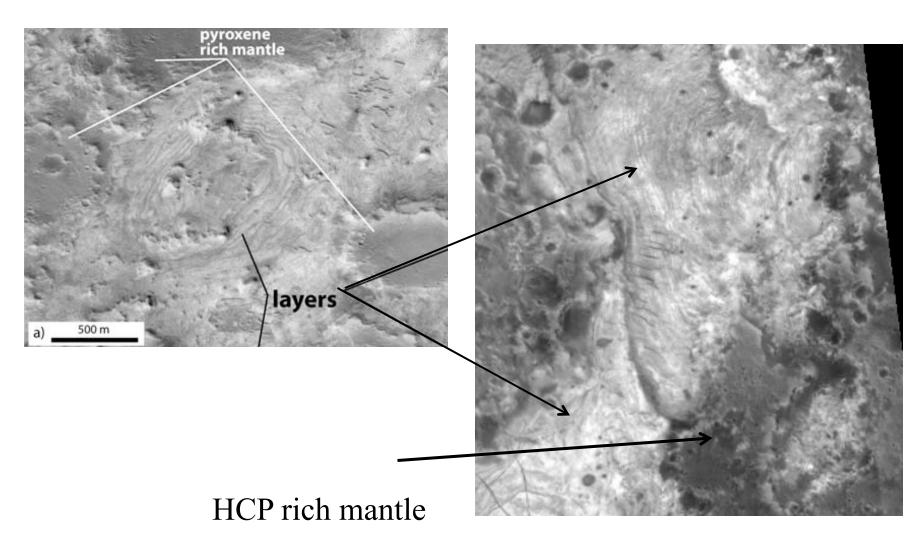
Context

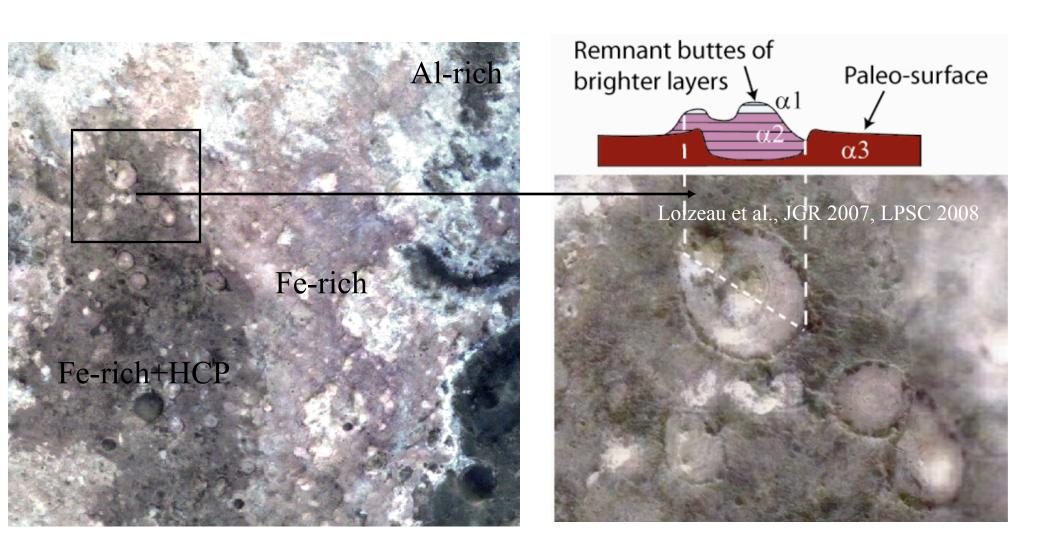
Regional stratigraphy:

1. First contact: Top-lying mantling



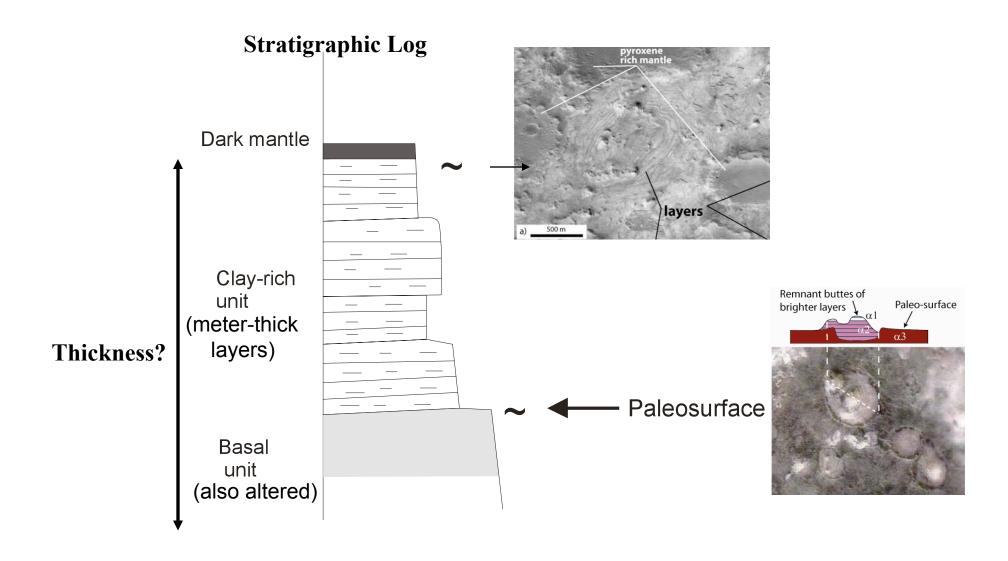
Regional stratigraphy:

2. Basal contact



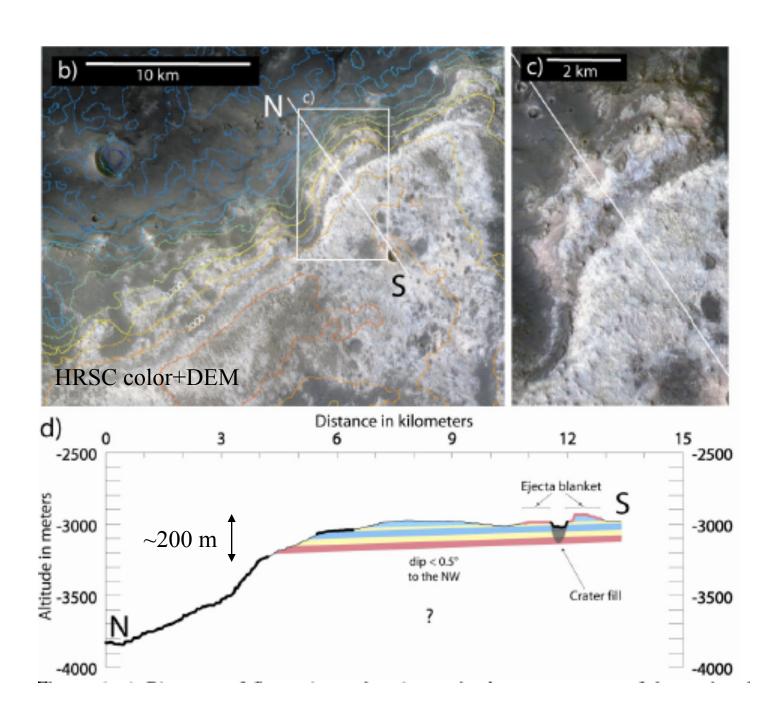
Regional stratigraphy:

Two unconformities (or hiatus for the lower one)



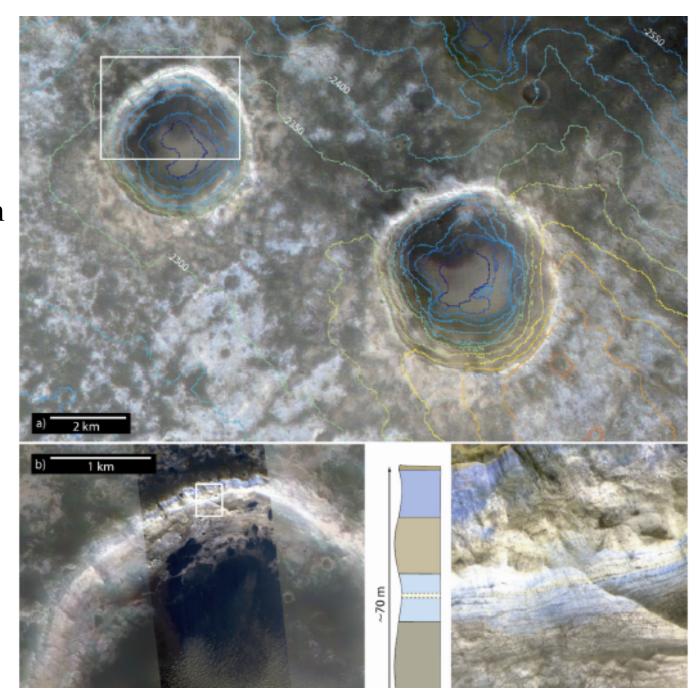
Thickness?

Local scarps 200 m high: Minimum thickness



Thickness?

Minimum 150 m from a series of impact craters

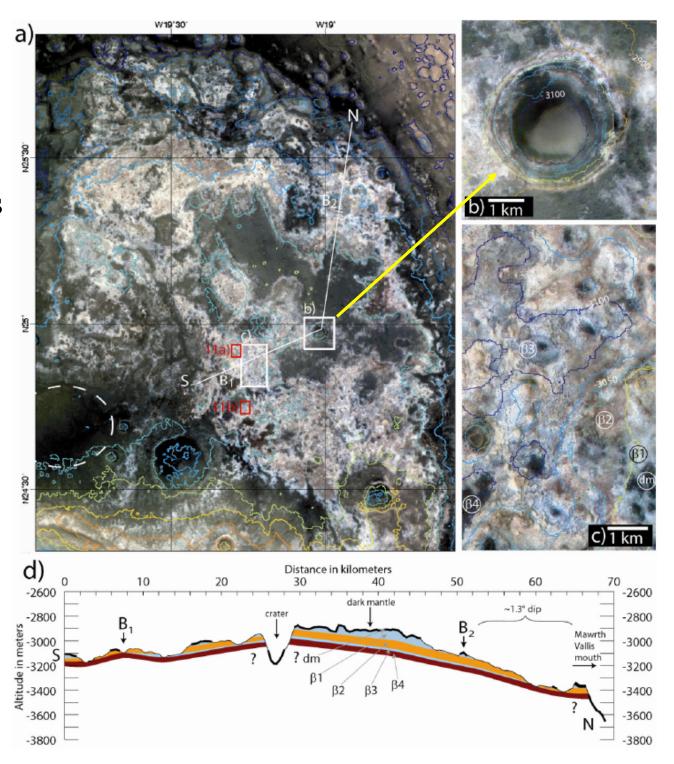


Internal layering

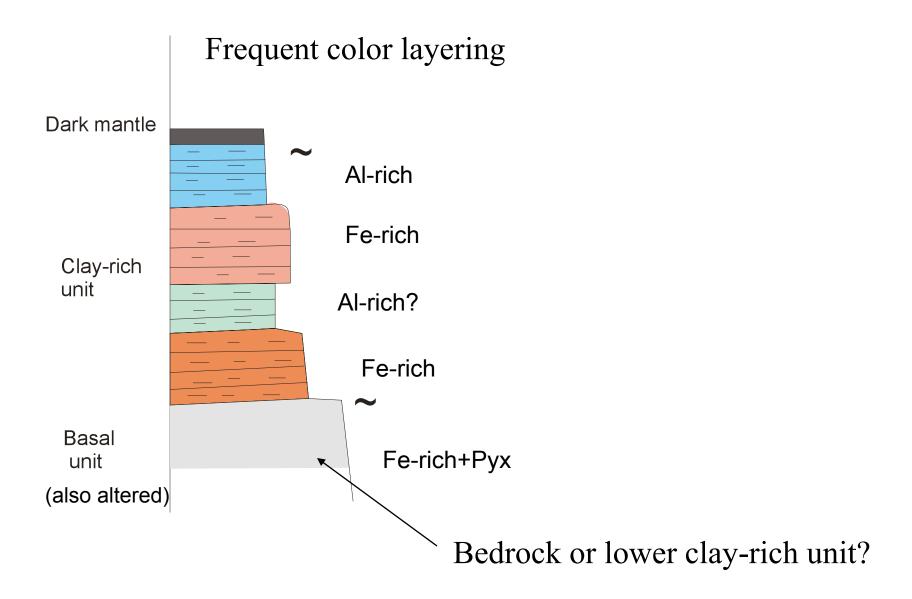
* Minimum 4 sub-units of different colors: 50-100 m each =200 m total thickness

Geometry:

Deposition over preexisting topography

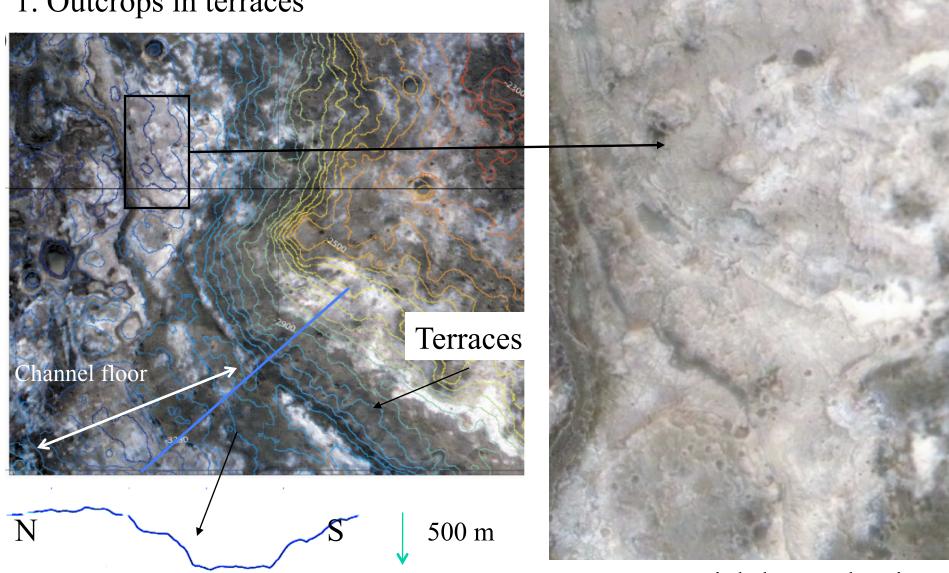


Variations of the internal stratigraphy



Chronology relative to Mawrth Vallis

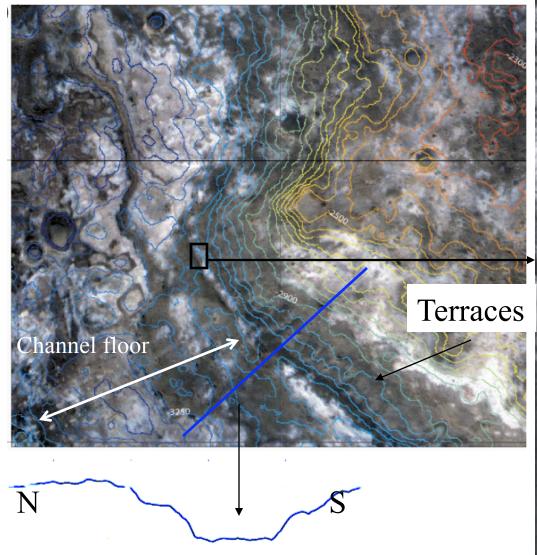
1. Outcrops in terraces



Fe-rich layered unit

Chronology relative to Mawrth Vallis

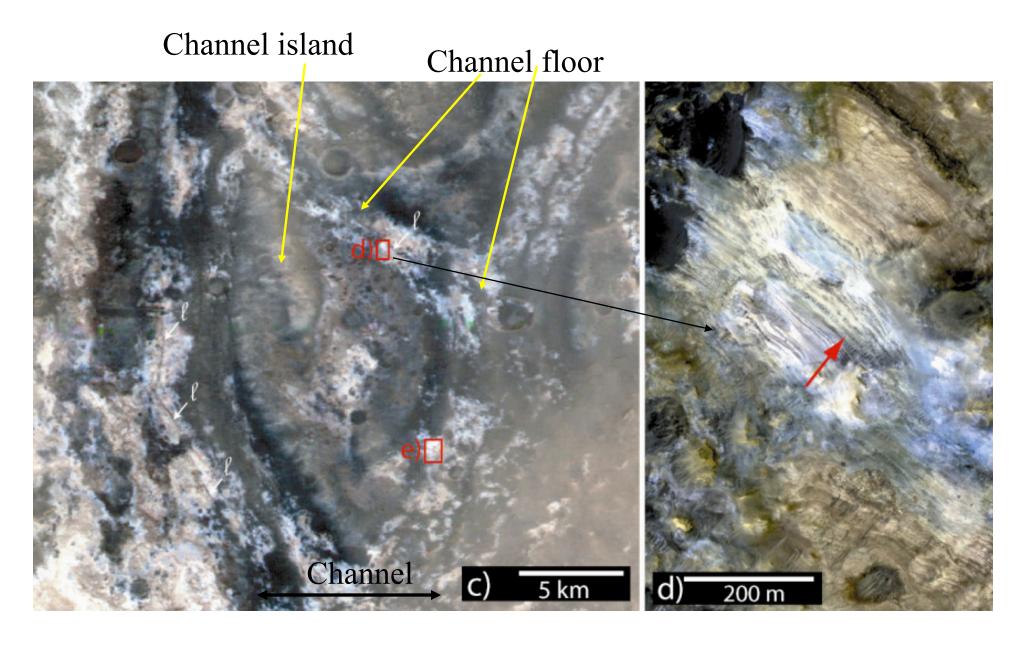
1. Outcrops in terraces





Chronology relative to Mawrth Vallis:

2. Outcrops and grooves on channel floor

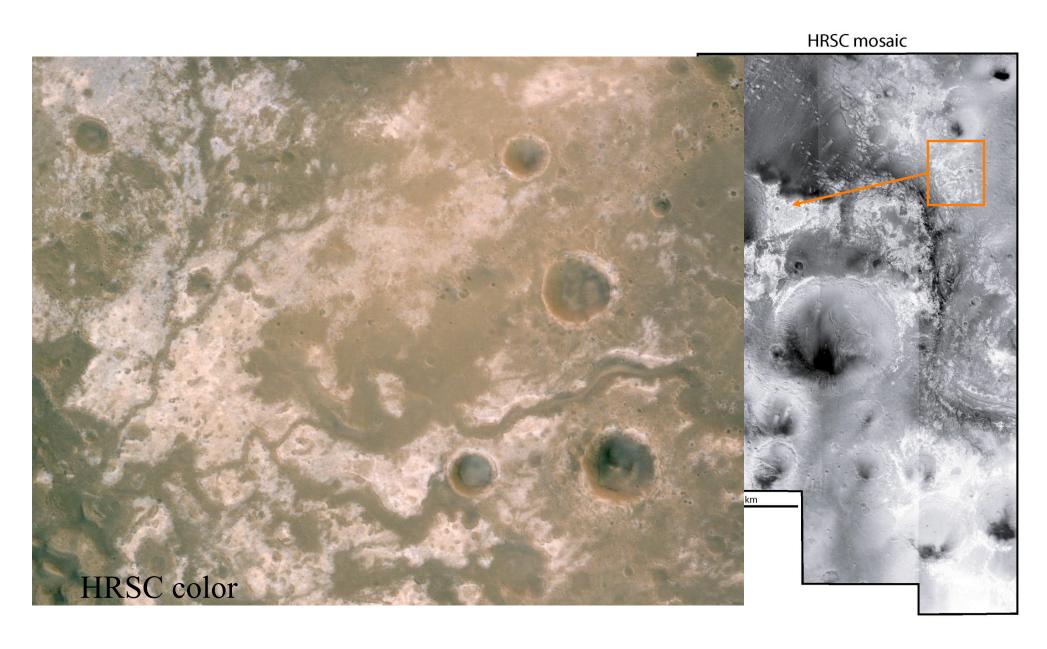


Mawrth Vallis formation Dark mantle Mawrth (initial interpretation) Mawrth, case of Al-rich later? (possible alternative, See Wray et al.) Clay-rich unit Mawrth

Basal unit (Not consistent with outcrops on sides)

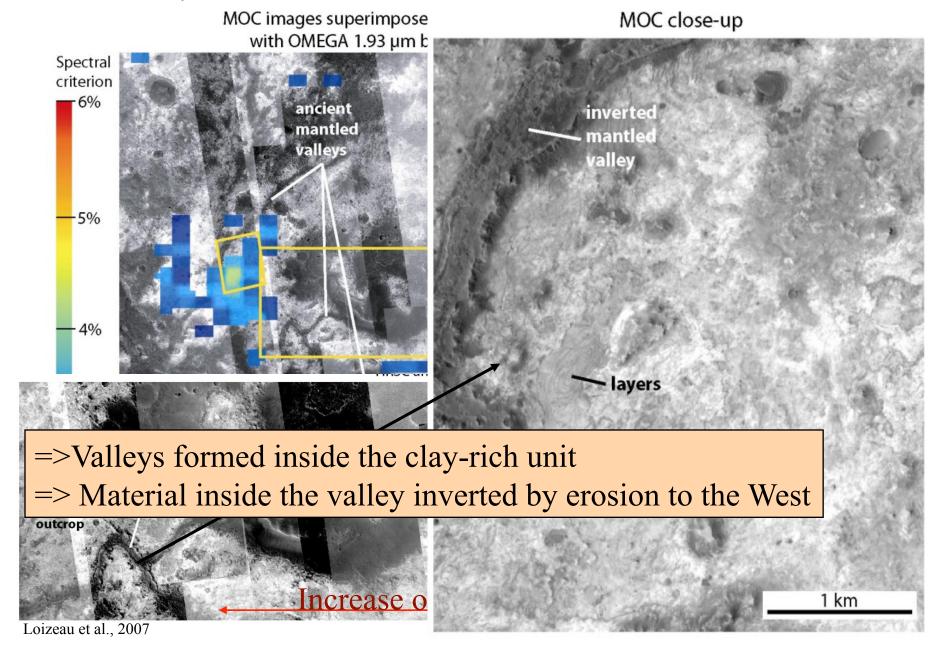
Chronology relative to valley networks

1. Inverted valleys



Chronology relative to valley networks

1. Inverted valleys



Chronology relative to valley networks

2. Shallow valleys partially eroded

